

SEQUENCE LISTING

<110> Cahoon, Rebecca
Caimi, Perry
Odell, Joan
Sakai, Hajime
Zhu, Qun

<120> PC4 Transcriptional Coactivators

<130> BB-1194

<140> 09/743,336

<141> 2001-01-05

<150> 60/093,687

<151> 1998-07-22

<160> 20

<170> Microsoft Office 97

<210> 1

<211> 649

<212> DNA

<213> Zea mays

<400> 1

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<210> 2

<211> 103

<212> PRT

<213> Zea mays

<400> 2

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Pro Ala Ala Lys Arg Gln Ala Ala Arg Asp Asp Gly Pro Ser Glu Ser
  20             25             30

Ala Glu Asp Gly Thr Val Val Ala Glu Ile Ser Lys Asn Lys Lys Val
  35             40             45

Ser Val Arg Ser Trp Lys Gly Arg Val Phe Val Asp Leu Arg Glu Phe
  50             55             60

Tyr Phe Lys Asp Gly Lys Thr Leu Pro Thr Arg Lys Gly Ile Ser Leu
  65             70             75             80
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Gln Leu Asp Gln Trp Lys Ile Leu Lys Asp Asn Ile Lys Ala Ile Asn
85 90 95

Glu Ala Ile Glu Glu Asn Thr
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<213> Oryza sativa

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<210> 4
<211> 101
<212> PRT
<213> Oryza sativa

<400> 4
Met Trp Arg Lys Gly Asn Lys Arg Phe Gly Gly Gly Gly Glu Pro Ala
1 5 10 15

Ala Lys Arg Arg Ala Ala Gly Asp Asp Gly Pro Ser Glu Ser Ala Asp
20 25 30

Asp Asp Ile Val Val Ala Gln Ile Ser Lys Asn Arg Arg Val Ala Val
35 40 45

Arg Thr Trp Asn Gly Lys Val Val Val Asp Ile Arg Glu Phe Tyr Glu
50 55 60

Lys Asp Gly Lys Thr Leu Pro Gly Arg Lys Gly Ile Gln Leu Pro Met
65 70 75 80

Asp Gln Trp Lys Ile Leu Arg Asp Asn Ile Lys Ala Ile Asp Glu Ala
85 90 95

Ile Lys Glu Asn Ala
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<210> 5
<211> 672
<212> DNA
<213> Glycine max

<400> 5
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aagaaggatt ccgatgacga tcccgactct attaccgttt gcgagatttc gaagaacagg 180
agggttgccg tgaggaactg gaaaggcagc attatgggtg acattcgcca gttttacgtc 240

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gctagttggt agttaactat atatactgct accacatcca tggtatttac cctttgtttg 600
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aaaaaaaaaa aa 672

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<212> PRT
<213> Glycine max

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Asp Ser Glu Gly His Ala Pro Pro Lys Lys Ser Leu Lys Lys Asp Ser
      20          25          30

Asp Asp Asp Pro Asp Ser Ile Thr Val Cys Glu Ile Ser Lys Asn Arg
      35          40          45

Arg Val Ala Val Arg Asn Trp Lys Gly Ser Ile Met Val Asp Ile Arg
      50          55          60

Glu Phe Tyr Val Lys Asp Gly Lys Gln Leu Pro Gly Arg Lys Gly Ile
      65          70          75          80

Ser Leu Thr Met Asp Gln Trp Asn Val Leu Arg Asn His Val Glu Glu
      85          90          95

Ile Asp Lys Ala Ile Asn Glu Asn Ser
      100          105

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<211> 460
<212> DNA
<213> Triticum aestivum

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<223> n=a,c,g or t

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<223> n=a,c,g or t

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<220>
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<223> n=a,c,g or t

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<220>
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<223> n=a,c,g or t

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<221> unsure
<222> (438)
<223> n=a,c,g or t

<220>
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<222> (445)
<223> n=a,c,g or t

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aggacggcaa gagcctcccg acccgcaaag gtatatcgct ctcaatggat cagtggaaaa 240
tactgagggg caacatcgaa gctatagacg aggccatcaa ggagaacact tgatcagaaa 300
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gtnnctact gttggtcngt gaaangtgac ctaatgcctt 460

<210> 8
<211> 96
<212> PRT
<213> Triticum aestivum

<400> 8
Phe Gly Gly Gly Gly Gly Arg Gly Gln Pro Pro Ala Lys Arg Gln Ala
1 5 10 15
Ala Gly Lys Asp Gly Pro Ser Glu Glu Thr Asp Asp Gly Ile Val Val
20 25 30
Ala Gln Ile Ser Lys Asn Lys Arg Val Ala Val Arg Asn Trp Asn Gly
35 40 45
Lys Val Met Val Asp Met Arg Glu Phe Tyr Glu Lys Asp Gly Lys Ser
50 55 60
Leu Pro Thr Arg Lys Gly Ile Ser Leu Ser Met Asp Gln Trp Lys Ile
65 70 75 80
Leu Arg Asp Asn Ile Glu Ala Ile Asp Glu Ala Ile Lys Glu Asn Thr
85 90 95

<210> 9
<211> 498
<212> DNA
<213> Calendula officinalis

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<222> (254)
<223> n=a,c,g or t

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<223> n=a,c,g or t

<220>
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<223> n=a,c,g or t

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ccggtgatga ttccggcgaa gatgacggca gcattctcat ctgcgatgtc tccaaaaacc 180
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tgaaagacgg caangcaaat gcctgggcaa aaaaggtatc tcattgacca tgggccaagt 300
gggaaagaac ttctgtctca tgtggatgaa atccacaagg ntcctggctt agtaanattn 360
aggtaagcaa agttaagtaa gacttangga aggnatgggn gttggacttt tggcgaacta 420
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<211> .99

<212> PRT

<213> Calendula officinalis

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<222> (84)

<223> Xaa = ANY AMINO ACID

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<221> UNSURE

<222> (88)

<223> Xaa = ANY AMINO ACID

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Cys Thr Lys Arg Lys Arg Glu Lys Met Ser Phe Lys Arg Gly Lys Gly
  1           5           10           15
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```
Lys Asp Lys Asp Glu Glu Asp Phe Ile Ser Glu Asn Ala Pro Pro Lys
      20           25           30
```

```
Lys Thr Ser Lys Lys Asp Thr Ser Gly Asp Asp Ser Gly Glu Asp Asp
      35           40           45
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```
Gly Ser Ile Phe Ile Cys Asp Val Ser Lys Asn Arg Arg Val Ser Val
      50           55           60
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Arg Asn Trp Gln Gly Lys Val Val Val Asp Ile Arg Glu Phe Tyr Met
      65           70           75           80
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```
Lys Asp Gly Xaa Ala Asn Ala Xaa Gly Lys Lys Gly Ile Ser Leu Thr
      85           90           95
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Met Gly Gln

<210> 11

<211> 516

<212> DNA

<213> Vernonia mespilifolia

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<221> unsure

<222> (189)

<223> n=a,c,g or t

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<221> unsure
<222> (221)
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<220>
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<220>
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<222> (449)
<223> n=a,c,g or t

<220>
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<222> (511)
<223> n=a,c,g or t

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gattccgacg acgaagacga catcttcatt tgtgacgttt ccaaaaaccg gaggggttct 180
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agtaagacta gtatcctggtt tttatgttga cagtgggtac ggcaaactctg caattatgta 420
gctggtaaga actctgggta ngttttgant gaatgctctt tgtgggtttg cataactttt 480
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<210> 12
<211> 111
<212> PRT
<213> Vernonia mespilifolia

<220>
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<222> (63)
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<222> (81)..(82)
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<222> (95)
<223> Xaa = ANY AMINO ACID

<220>
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<222> (106)
<223> Xaa = ANY AMINO ACID

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Lys Asp Asp Glu Asp Phe Ile Ser Asp His Ala Pro Pro Lys Lys Thr
20 25 30
Ser Lys Lys Asp Thr Ala Gly Asp Asp Ser Asp Asp Glu Asp Asp Ile
35 40 45
Phe Ile Cys Asp Val Ser Lys Asn Arg Arg Val Ser Val Arg Xaa Trp
50 55 60

Gln Gly Arg Val Phe Val Asp Ile Arg Xaa Phe Tyr Met Lys Xaa Gly
65 70 75 80

Xaa Xaa Met Pro Xaa Lys Xaa Gly Ile Ser Leu Thr Met Asp Xaa Trp
85 90 95

Lys Glu Leu Arg Ala His Val Asp Glu Xaa Asp Lys Ala Leu Ala
100 105 110

<210> 13
<211> 1089
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (313)
<223> n=a,c,g or t

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gtaatctacc attaggtggc ctggattcac atgctatgct atgtgatgat cggggatgtg 1020
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<210> 14
<211> 183
<212> PRT
<213> Zea mays

<400> 14
Met Asp Glu Ala Thr Lys Lys Asn Val Glu Ala Thr Val Leu Glu Ile
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Leu Arg Gly Ser Asp Met Glu Ser Val Thr Glu Tyr Lys Val Arg Ala
20 25 30

Ala Ala Ser Asp Arg Leu Gly Ile Asp Leu Ser Ile Pro Asp Arg Lys
35 40 45

Leu Phe Val Arg Gly Val Val Glu Glu Tyr Leu Leu Ser Leu Ser Ser
50 55 60

Lys Glu Glu Ala Lys Ala Glu Glu Glu Gly Val Thr Gly Arg Glu Ser
65 70 75 80

Lys Gly Lys Glu His Glu Glu Glu Asp Glu Glu Asp Asp Asp Glu Glu
85 90 95

Glu Asp Glu Gly Lys Gly Gly Gly Lys Arg Glu Tyr Asp Asp Gln Gly
100 105 110

Asp Leu Ile Leu Cys Arg Leu Ser Ser Lys Arg Arg Val Thr Leu Ser
115 120 125

Glu Phe Lys Gly Arg Ser Leu Val Ser Ile Arg Glu Phe Tyr Val Lys
130 135 140

Asp Gly Lys Glu Met Pro Ser Ala Lys Gly Ile Ser Met Thr Leu Glu
145 150 155 160

Gln Trp Glu Ala Phe Cys Asn Ala Val Pro Ala Ile Glu Asp Ala Ile
165 170 175

Lys Lys Leu Glu Asp Ser Asp
180

<210> 15
<211> 939
<212> DNA
<213> Zea mays

<400> 15
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gcgaagggcg cggaggaggg cgacgctggc agggagagca aggacaagga acggaaggaa 180
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tctatttctc aaggaatttt ttttaaaaaa atagagtgc 939

<210> 16
<211> 140
<212> PRT
<213> Zea mays

<400> 16
Met Asp Glu Ala Thr Lys Lys Val Glu Ala Thr Val Leu Glu Ile Pro
1 5 10 15

Arg Gly Ser Asp Met Glu Ser Val Thr Glu Asn Lys Glu Glu Ala Lys
20 25 30

Ala Ala Glu Gly Asp Ala Gly Arg Glu Ser Lys Asp Lys Glu Arg
35 40 45

Lys Glu Asp Glu Glu Glu Asp Glu Gly Lys Gly Gly Lys Arg Glu

50

55

60

Tyr Asp Asp Gln Gly Asp Leu Ile Leu Cys Arg Leu Ser Ser Lys Arg
65 70 75 80

Arg Val Thr Leu Ser Glu Phe Lys Gly Arg Ser Leu Val Ser Ile Arg
85 90 95

Glu Phe Tyr Val Lys Asp Gly Lys Glu Met Pro Ser Ala Lys Gly Ile
100 105 110

Ser Met Thr Leu Glu Gln Trp Glu Ala Phe Cys Asn Ala Val Pro Ala
115 120 125

Ile Glu Asp Ala Ile Lys Lys Leu Glu Asp Ser Asp
130 135 140

<210> 17

<211> 740

<212> DNA

<213> Glycine max

<400> 17

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gacctgtctc agccttattt caaagccttt gtcaaacagg tcgtgaaggc ttttctccaa 180
gaagaagaac aacgacagaa acaacaacaa caagatgaag atgaagaaga agaactagga 240
ggaggttcca agggcaagga gtacgatgat gaaggcgatc tcatcatctg caggctttca 300
gataagagaa gggtgacgat tcaggatttc agaggggaaa catttgtctc cattcgggag 360
tattataaaa aggatggcaa ggaacttcct acttccaaag gaataagttt gacagaagag 420
cagtggtcag cctttaagaa aaatgtgcct gccatagaaa aagccattaa gaaaatggag 480
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tgcaacctga gtgcctaaag ccatttcagg aagactaaac tgaatgccag taactttaaa 660
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ggttaaggga ggggggaccg 740

<210> 18

<211> 141

<212> PRT

<213> Glycine max

<400> 18

Met Asp Glu Val Thr Glu Ser Lys Ile Arg Lys Gln Ala Ser Glu His
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Leu Gly Leu Asp Leu Ser Gln Pro Tyr Phe Lys Ala Phe Val Lys Gln
20 25 30

Val Val Lys Ala Phe Leu Gln Glu Glu Gln Arg Gln Lys Gln Gln
35 40 45

Gln Gln Asp Glu Asp Glu Glu Glu Glu Leu Gly Gly Gly Ser Lys Gly
50 55 60

Lys Glu Tyr Asp Asp Glu Gly Asp Leu Ile Ile Cys Arg Leu Ser Asp
65 70 75 80

Lys Arg Arg Val Thr Ile Gln Asp Phe Arg Gly Lys Thr Leu Val Ser
85 90 95

Ile Arg Glu Tyr Tyr Lys Lys Asp Gly Lys Glu Leu Pro Thr Ser Lys
100 105 110

Gly Ile Ser Leu Thr Glu Glu Gln Trp Ser Ala Phe Lys Lys Asn Val
115 120 125

Pro Ala Ile Glu Lys Ala Ile Lys Lys Met Glu Ser Ser
130 135 140

<210> 19

<211> 83

<212> PRT

<213> Arabidopsis thaliana

<400> 19

Met Ser Ser Arg Gly Lys Arg Lys Asp Asp Val Arg Ala Ser Asp Asp
1 5 10 15

Ser Thr His Ala Ala Lys Lys Val Ala Lys Ala Asp Asp Ser Asp Ser
20 25 30

Asp Asp Val Val Cys Asn Ser Lys Asn Arg Arg Val Ser Val Arg Asn
35 40 45

Trp Asn Gly Lys Trp Asp Arg Tyr Val Lys Asp Gly Lys Thr Gly Lys
50 55 60

Lys Gly Ser Ser Val Asp Trp Asn Thr Arg Asn His Ala Asp Lys Ala
65 70 75 80

Ser Asp Ser

<210> 20

<211> 165

<212> PRT

<213> Arabidopsis thaliana putative transcriptional coactivator

<400> 20

Met Glu Lys Glu Thr Lys Glu Lys Ile Glu Lys Thr Val Ile Glu Ile
1 5 10 15

Leu Ser Glu Ser Asp Met Lys Glu Ile Thr Glu Phe Lys Val Arg Lys
20 25 30

Leu Ala Ser Glu Lys Leu Ala Ile Asp Leu Ser Glu Lys Ser His Lys
35 40 45

Ala Phe Val Arg Ser Val Val Glu Lys Phe Leu Asp Glu Glu Arg Ala
50 55 60

Arg Glu Tyr Glu Asn Ser Gln Val Asn Lys Glu Glu Glu Asp Gly Asp
65 70 75 80

Lys Asp Cys Gly Lys Gly Asn Lys Glu Phe Asp Asp Asp Gly Asp Leu
85 90 95

Ile Ile Cys Arg Leu Ser Asp Lys Arg Arg Val Thr Ile Gln Glu Phe
100 105 110

Lys Gly Lys Ser Leu Val Ser Ile Arg Glu Tyr Tyr Lys Lys Asp Gly

115

120

125

Lys Glu Leu Pro Thr Ser Lys Gly Ile Ser Leu Thr Asp Glu Gln Trp
130 135 140

Ser Thr Phe Lys Lys Asn Met Pro Ala Ile Glu Asn Ala Val Lys Lys
145 150 155 160

Met Glu Ser Arg Val
165